



DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD
2461 EISENHOWER AVENUE
ALEXANDRIA, VIRGINIA 22331

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IKs Review

19 MAR 1987

DDESB-KT

SUBJECT: 105 MM Tank Rack Design

Commander
US Army Safety Center
Ft. Rucker, AL 36362-5363

1. References:

a. PESC-PR (SLCBR-TB-E/22 Jan 87) 1st End, dated 2 Mar 87, SAB.

b. DDESB-KT (PESC-PR/10 Dec 86) 1st End, dated 23 Dec 86, Subject: Amendment to BRL-SP-46.

c. SLCBR-TB-E letter dated 22 Jan 87, SAB.

2. Based on the information provided by reference 1a, the storage of M494 antipersonnel (flechette) rounds and M416 smoke (white phosphorus) grenades are approved for storage with the M456 HEAT-T, M456A1 HEAT-T, M392A1 APDS-T, and M735 APFSDS-T rounds in the recently approved 105 MM tank rack (reference 1b). As recommended in reference 1c, the approved storage configuration is to have the M456 and M456A1 rounds on the bottom layer of the rack with the M735 above (as tested), and the flechette and white phosphorus rounds in the top rows.

for Robert D. Bowers, Col, USA
THOMAS F. HALL, JR.
Colonel, USA
Chairman

File 23.24

Inward / DH

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DDESB-KT (PESC-PR/10 DEC 86) 1st End
SUBJECT: Amendment to BRL-SP-46

Department of Defense Explosives Safety Board, 2461 Eisenhower Avenue,
Alexandria, VA 22331-0600 **23 DEC 1986**

TO: Commander, US Army Safety Center, ATTN: PESC-PR, Fort Rucker, AL
36362-5363

As requested, we have reviewed subject document with respect to explosives safety. Storage racks constructed in accordance with the procedures detailed in this document are approved for the storage of 105mm tank ammunition in the configuration tested and reported in BRL-TR-3424, "Temporary Tank Ammunition Storage Facility" (M456 HEAT-T rounds on the bottom two shelves and kinetic energy rounds or inert plugs on the upper two shelves). An Inhabited Building Distance of 50 feet is approved for this rack containing 105mm tank ammunition with hazard characteristics similar to those of the M456A1 HEAT-T and M392A1 APDS-T rounds, and the APFSDS-T rounds.

/S/ COL ROBERT F. BOWERS, USA

ROBERT F. BOWERS
Colonel, USA
Acting Chairman

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Price / Pch / 0087 P